



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

| | | | |
|--|--|--|--|
| (51) International Patent Classification ⁷ : H04L 12/28, 29/06, H04M 7/00, 11/06 | | A3 | (11) International Publication Number: WO 00/35145 (43) International Publication Date: 15 June 2000 (15.06.00) |
| (21) International Application Number: PCT/IL99/00666 (22) International Filing Date: 7 December 1999 (07.12.99) (30) Priority Data: 127435 7 December 1998 (07.12.98) IL 127437 7 December 1998 (07.12.98) IL (71) Applicant (for all designated States except US): MARCONI COMMUNICATIONS ISRAEL LTD. [IL/IL]; Hamelacha Street 1, Industrial Zone, 71293 Lod (IL). (72) Inventor; and (75) Inventor/Applicant (for US only): SLOVIN, Zvi [IL/IL]; Hanasi Harishon Street 41/10, 76303 Rehovot (IL). (74) Agents: COLB, Sanford, T. et al.; Sanford T. Colb & Co., P.O. Box 2273, 76122 Rehovot (IL). | | (81) Designated States: AE, AL, AM, AT, AT (Utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, CZ (Utility model), DE, DE (Utility model), DK, DK (Utility model), DM, EE, EE (Utility model), ES, FI, FI (Utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (Utility model), SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> (88) Date of publication of the international search report: 19 October 2000 (19.10.00) | |

(54) Title: **WIRELESS LOCAL LOOP SYSTEM AND METHODS USEFUL THEREFOR**

(57) Abstract

This invention discloses a wireless local loop system including a data network/PSTN gateway unit (30), at least one data lines, at least one base stations (10) connected to the gateway unit via said at least one data lines respectively, a multiplicity of wireless subscriber units (60) communicating wirelessly with the base station, each wireless subscriber unit comprising at least one interfaces (130) to at least one host including a telephone host, each subscriber unit including an analog converter operative to translate incoming information in IP packet format into analog voice representation and to feed the analog voice representation to the telephone host, and to receive incoming analog voice information from the telephone host, to translate the incoming analog voice information into IP packet formatted information and to feed the IP packet formatted information to the base station, and a packet switcher operative to perform packet switching on IP packets arriving from the base station connected to the subscriber unit, including routing IP packets for hosts other than the telephone host to those hosts and routing IP packets for the telephone host to the analog converter, and wherein the base station is operative to perform packet switching on incoming IP packets based on an IP destination address included in each the incoming IP packet, and wherein the gateway unit is operative to switch incoming data packets onto the data network (40), to translate incoming voice packets from IP packet format into analog voice representation and to switch the analog voice representation onto the PSTN (50).

